

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Please cancel claims 54 and 66 without prejudice or disclaimer.

Please amend claims 49, 50, 61 and 62 as follows:

1 to 48 (cancelled).

49. (currently amended) An isolated nucleic acid molecule ~~encoding a BRCA1 protein~~ comprising the ~~amino acid sequence of SEQ ID NO: 4~~ nucleotide sequence of SEQ ID NO: 3.

50. (currently amended) The isolated nucleic acid molecule of claim 49, wherein the nucleic acid ~~comprises~~ consists essentially of the nucleotide sequence of SEQ ID NO: 3.

51. (previously presented) The isolated nucleic acid molecule of claim 49, wherein the nucleic acid molecule consists of the nucleotide sequence of SEQ ID NO: 3.

52. (previously presented) The isolated nucleic acid molecule of claim 49, wherein the nucleic acid molecule comprises nucleotides 120 to 5,708 of SEQ ID NO: 3.

53. (previously presented) The isolated nucleic acid molecule of claim 49, wherein the nucleic acid molecule consists of nucleotides 120 to 5,708 of SEQ ID NO: 3.

54. (cancelled)

55. (previously presented) The isolated nucleic acid molecule of claim 49, wherein the nucleic acid molecule is operably linked to one or more expression control elements.

56. (previously presented) A vector comprising an isolated nucleic acid molecule of claim 49.

57. (previously presented) A host cell comprising the vector of claim 56.

58. (previously presented) A host cell transformed to contain the nucleic acid molecule of claim 49.

59. (previously presented) A host cell of claim 57 or 58, wherein said host is selected from the group consisting of prokaryotic hosts and eukaryotic hosts.

60. (previously presented) A method for producing a polypeptide comprising culturing a host cell of claim 57 or 58 under *in vitro* conditions in which the protein encoded by the nucleic acid molecule is expressed.

61. (currently amended) A method for producing a polypeptide comprising culturing a host cell containing a nucleic acid ~~encoding a BRCA1 protein comprising the amino acid sequence of SEQ ID NO: 4~~ comprising the nucleotide sequence of SEQ ID NO: 3 under *in vitro* conditions in which the protein encoded by the nucleic acid molecule is expressed.

62. (currently amended) The method of claim 61, wherein the nucleic acid ~~comprises~~ consists essentially of the nucleotide sequence of SEQ ID NO: 3.

63. (previously presented) The method of claim 61, wherein the nucleic acid molecule consists of the nucleotide sequence of SEQ ID NO: 3.

64. (previously presented) The method of claim 61, wherein the nucleic acid molecule comprises nucleotides 120 to 5,708 of SEQ ID NO: 3.

65. (previously presented) The method of claim 61, wherein the nucleic acid molecule consists of nucleotides 120 to 5,708 of SEQ ID NO: 3.

Claim 66 (cancelled)